

### What is Claimed is:

1. A hand-held electronic device with a hidden keyboard for data entry, comprising:

a device body having a display screen on the front side and a housing chamber on the inside;

- 5 a keyboard movable attached in the housing chamber for moving relative to the device body to an use position outside the device body and a retreat position retracting in the device body; and

- 10 a support frame pivotally engaged with the back side of the device body and being extensible relative to the device body for the device body to form a selected inclined angle with a holding plane.

2. The hand-held electronic device with a hidden keyboard of claim 1, wherein the device body and the keyboard have respectively a guide channel and a matching stub shaft located on the adjacent sides thereof, and the stub shaft being coupled with the guide channel and slidable therein.

- 15 3. The hand-held electronic device with a hidden keyboard of claim 2, wherein the guide channel includes a linear chute and a curved chute, the curved chute being located at an opening of the housing chamber to allow the stub shaft of the keyboard engaging with an elastic anchor means and moving in the curved chute for a turned displacement.

- 20 4. The hand-held electronic device with a hidden keyboard of claim 2, wherein the keyboard further has an elastic anchor means for wedging in the guide channel, the elastic anchor means including an anchor ball and an elastic element to push the anchor ball against the guide channel, the device body further having two anchor cavities located in the guide channel corresponding respectively to the use position and the retreat position to engage with the anchor ball.

- 25 5. The hand-held electronic device with a hidden keyboard of claim 1, wherein the

keyboard has a nest trough to house the elastic element.

6. The hand-held electronic device with a hidden keyboard of claim 1, wherein the keyboard further has at least one foot stub located on a bottom side thereof.
7. The hand-held electronic device with a hidden keyboard of claim 1, wherein the  
5 keyboard further has at least one pulling section for moving the keyboard outwards from the device body.
8. The hand-held electronic device with a hidden keyboard of claim 1, wherein the support frame includes at least a main bracket and a secondary bracket;

10 the main bracket having one end pivotally engaged with the back side of the device body on a first pivotal joint and having a depress blade extended into the housing chamber, and having another end pivotally engaged with the secondary bracket, the first pivotal joint being coupled with a first torsional spring for urging the main bracket outwards relative to the device body;

15 the secondary bracket having one end formed a slide end movable in the housing chamber and another end pivotally engaged with the main bracket on a second pivotal joint, the second pivotal joint being coupled with a second torsional spring for extending the secondary bracket relative to the main bracket; and

20 wherein when the keyboard is at the use position the first and the second torsional springs urge the main bracket and the secondary bracket to form the support frame to support the back side of the device body; when the keyboard is pushed into the housing chamber, the main bracket and the secondary bracket are harnessed by the depress blade and channeled by the slide end to gradually fold and stack on the back side of the device body.

- 25 9. The hand-held electronic device with a hidden keyboard of claim 8, wherein the device body has a first opening to allow the depress blade to pass through.
10. The hand-held electronic device with a hidden keyboard of claim 8, wherein the

device body has a second opening to allow the slide end to pass through.

11. The hand-held electronic device with a hidden keyboard of claim 8, wherein the main bracket has at least a first retain finger to limit the angle formed between the main bracket and the second bracket when extended.

5 12. The hand-held electronic device with a hidden keyboard of claim 8, wherein the secondary bracket has at least a second retain finger to limit the angle formed between the main bracket and the second bracket when extended.

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